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USDOC FOR 532/OEA/L.HINES/K. GAINES

USDOC FOR 3121/USFCS/OIO/EAP/ADESARRAN

USDOC FOR 4430/ITA/MAC/WGOLIKE/LDICKERSON

E.O. 12958: N/A

TAGS: [BEXP](#) [ETTC](#) [ETRD](#) [TW](#)

SUBJECT: PSV: INSTITUTE OF ASTRONOMY AND ASTROPHY

REF: USDOC 0367 (APPLICATION NUMBER: D397463)

¶1. ON MARCH 19, 2009, COMMERCIAL OFFICER ERIC CROWLEY AND FN CINDY CHANG VISITED THE INSTITUTE OF ASTRONOMY AND ASTROPHY AT THE ADDRESS CITED IN PSV REQUEST CABLE TO CONDUCT A POST-SHIPMENT VERIFICATION. DURING THE VISIT POST MET WITH ASSISTANT RESEARCH FELLOW, DR. YUH-JING HWANG.

¶2. THE INSTITUTE OF ASTRONOMY AND ASTROPHYSICS (ASIAA), IS ONE OF THE RESEARCH DEPARTMENTS UNDER ACADEMIA SINICA, WHICH IS THE PREMIER ACADEMIC AND RESEARCH INSTITUTION IN TAIWAN. ACADEMIA SINICA WAS FOUNDED IN 1928, AND WHILE AFFILIATED DIRECTLY WITH THE PRESIDENTIAL OFFICE OF TAIWAN, ENJOYS SUBSTANTIAL AUTONOMY IN FORMULATING ITS RESEARCH OBJECTIVES. THE ORGANIZATION'S MAJOR TASKS ARE TO UNDERTAKE IN-DEPTH ACADEMIC RESEARCH ON VARIOUS SUBJECTS IN THE SCIENCES AND HUMANITIES, AND TO PROVIDE GUIDELINES, CHANNELS OF COORDINATION, AND INCENTIVES IN ORDER TO RAISE ACADEMIC STANDARDS IN TAIWAN.

¶3. ACCORDING TO DR. HWANG, THE CONTROLLED TECHNOLOGY IN QUESTION IS BEING USED FOR A SUBMILLIMETER ARRAY (SMA) PROJECT THAT IS A COLLABORATIVE EFFORT BETWEEN ASIAA AND THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY (SAO). THE ARRAY WAS DEDICATED ON MAUNA KEA, HAWAII IN NOVEMBER 2003 BY THE PREVIOUS PRESIDENT OF ACADEMIA SINICA (AND NOBEL PRIZE WINNER), YUAN TSEH LEE, AND THE SMITHSONIAN INSTITUTION SECRETARY LARRY SMALL. AS EXPLAINED BY DR. HWANG, THE SMA IS A RADIO INTERFEROMETER OPERATING IN THE ATMOSPHERIC WINDOWS CENTERED AT 230, 345, 400, AND 690 GHZ THAT CONSISTS OF EIGHT 6 METER RADIO TELESCOPES, WITH TWO OF THEM (INCLUDING THE ASSOCIATED ELECTRONICS AND RECEIVER SYSTEMS) DELIVERED BY ASIAA. THE SMA IS THE FIRST AND CURRENTLY THE ONLY ARRAY OPERATING IN SUBMILLIMETER WAVELENGTHS, AND PROVIDES A UNIQUE CAPABILITY TO OBSERVE WARM, DENSE GAS AND DUST AT UNPRECEDENTED HIGH ANGULAR RESOLUTIONS UP TO 0.1 ARC SECONDS IN EXTENT. THE SMA'S RESEARCH FOCUS INCLUDES THE SOLAR SYSTEM, STAR AND PLANET FORMING REGIONS, EVOLVED STARS, AND GALAXIES AT NEARBY AND COSMOLOGICAL DISTANCES.

¶4. ASIAA WAS OPEN AND COOPERATIVE AND MR. HWANG SHOWED US THEIR LABORATORY FACILITIES. AIT WAS ALLOWED TO ENTER THEIR TESTING CENTER WHERE THE TWO CONTROLLED MULTIPLIER CHAINS ARE LOCATED. MR. HWANG SHOWED POST THEIR ORIGINAL EXPORT LICENSE APPLICATION AND CONFIRMED THAT THE CONTROLLED ITEMS ARE FOR THEIR OWN USE AND ONLY IN THE FACILITY VISITED BY POST.

¶5. AIT FOUND NO EVIDENCE TO INDICATE THAT THE CONTROLLED PRODUCTS WERE USED FOR PURPOSES OTHER THAN THOSE PROVIDED IN THE STATED END USE.

YOUNG